916-1152-6998

CYBERLOOK 5"

CSU

```
COMPANY:      ARCO EXPLORATION COMPANY
WELL:         BANZER 834-16
FIELD:        MIST-WILDCAT
COUNTY:       COLUMBIA
STATE:        OREGON
NATION:       USA
LOCATION:     90'N & 1992'W OF SE COR

   SEC:       16            TWP: 6N            RGE: 5W

PERMANENT DATUM:          GL           ELEVATIONS-
ELEV. OF PERM. DATUM:     577.0 F         KB:   590.0 F
LOG MEASURED FROM:        KB              DF:   589.0 F
     13.0 F    ABOVE PERM. DATUM          GL:   577.0 F
DRLG. MEASURED FROM:      KB

DATE:                    17 APR 85
RUN NO:                  1

DEPTH-DRILLER:           4914.0 F
DEPTH-LOGGER:            4902.0 F
BTM. LOG INTERVAL:       8650.0 F
TOP LOG INTERVAL:        1650.0 F

CASING-DRILLER:           966 F
CASING-LOGGER:            964 F
CASING:                  9 5/8"
   WEIGHT:               36.00 LB/F
BIT SIZE:                8 3/4"
   DEPTH:                 4914 F
```

RECEIVED - PTLD
APR 17 1985
DEPT OF GEOLOGY & MINERAL INDUS

```
OTHER SERVICES-
   DIL
   LDT/CNL/NGT
   HST
   SHDT
   BHC
   CST

API SERIAL NO:
   36-009-001

PROGRAM
TAPE NO:
   26.2
SERVICE
ORDER NO:
   432414
```

```
TYPE FLUID IN HOLE:     BESCO-DRISPAC
DENSITY:                10.2 LB/G
VISCOSITY:              44.0 S
PH:                      9.5
FLUID LOSS:              4.8 C3
SOURCE OF SAMPLE:       FLOWLINE
RM:                      3.170 OHMM AT 83.0 DEGF
RMF:                     2.050 OHMM AT 64.0 DEGF
RMC:                     1.070 OHMM AT 67.0 DEGF
SOURCE RMF/RMC:         MEAS/MEAS
RM AT BHT:               2.300 OHMM AT 117.  DEGF
RMF AT BHT:              1.631 OHMM AT 117.  DEGF
RMC AT BHT:               .638 OHMM AT 117.  DEGF

TIME CIRC. STOPPED:     13:30 4/15
TIME LOGGER ON BTM.:    18:45 4/15

MAX. REC. TEMP:         117.0 DEGF
```

LOGGING UNIT NO: 8128
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: MAYER
WITNESSED BY: BUIKEMA

REMARKS:

CHLORIDES: 900PPM

EQUIPMENT NUMBERS-

DIS 567	DIC 342	DRS 4775	MSC 1955
PDH 2942	CMC 38	NGD 1798	MGC 1798
CCCD 2800			

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

FILE 0 17-APR-85 00:26
DATA ACQUIRED 00- -00 00:00

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)
RWB	.400000	OHMM	2200.0				
RWF	.220000	OHMM	2330.0	RWB	1.20000	OHMM	2330.0
SPCL	-95.0000	MV	2330.0	SPSH	-30.0000	MV	2330.0

grain density
RHGF(G/C3)
2.5000 3.0000
MSI
0.0 1.0000

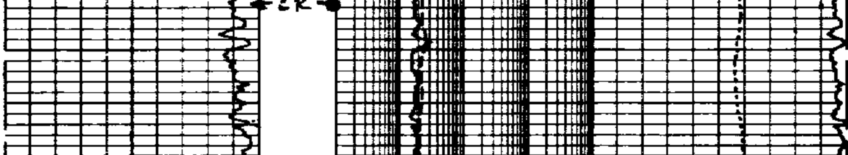
Resist.
RD (OHMM)
.10000 1000.0
RT (OHMM)
.10000 1000.0

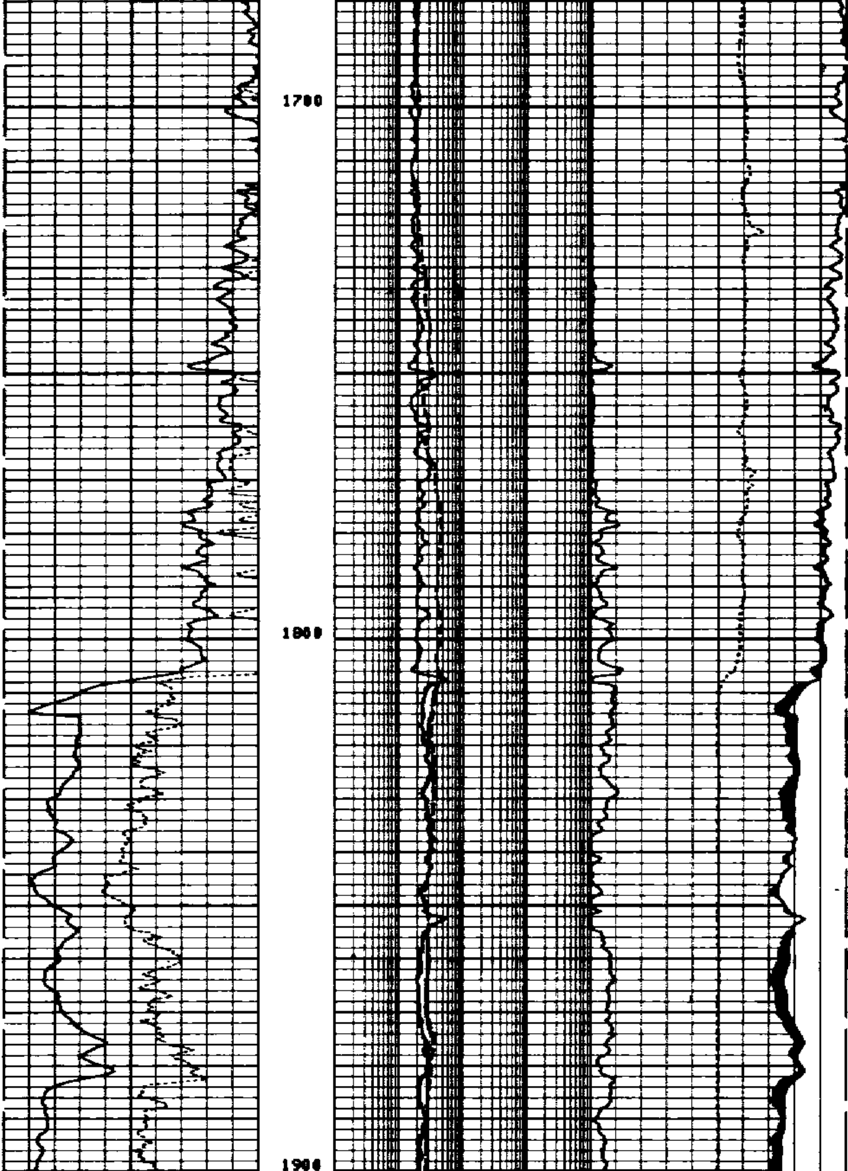
SW
1.0000 -1.000
DCAL(IN)
-20.00 20.000
BVW
1.0000 0.0
PHIE
1.0000 0.0

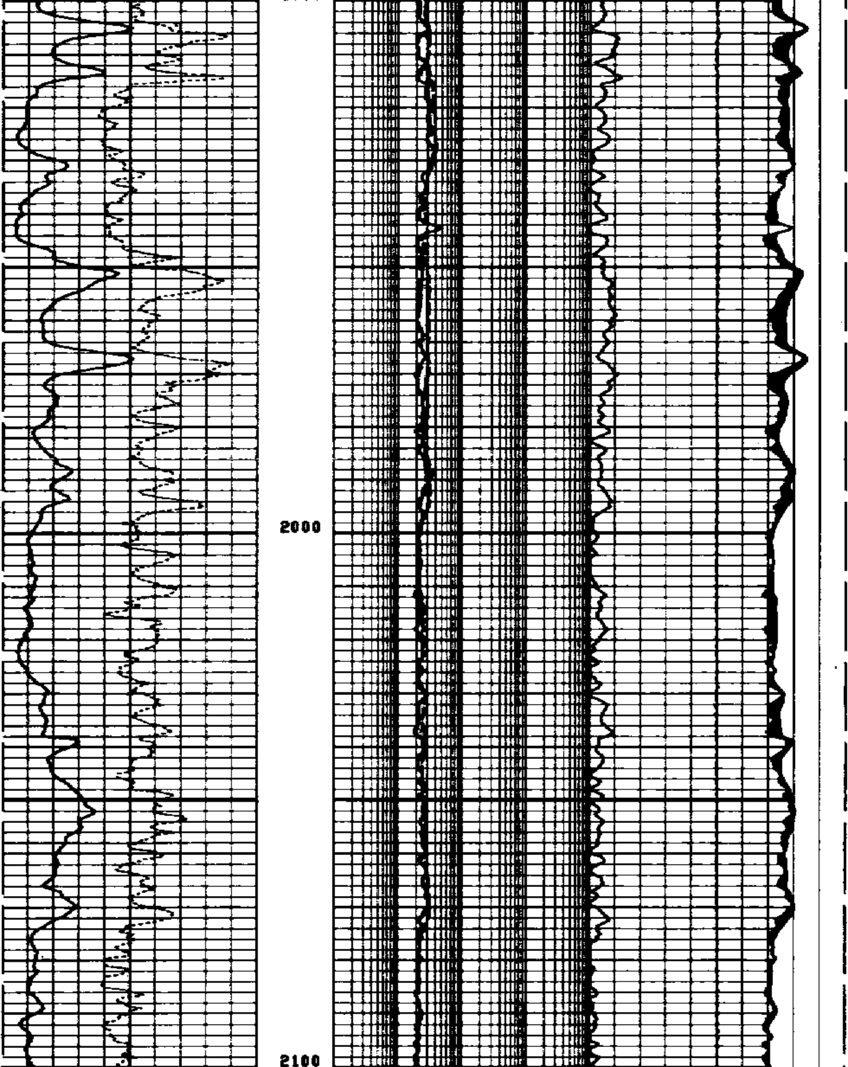
wet shale indicator
(% of shale)

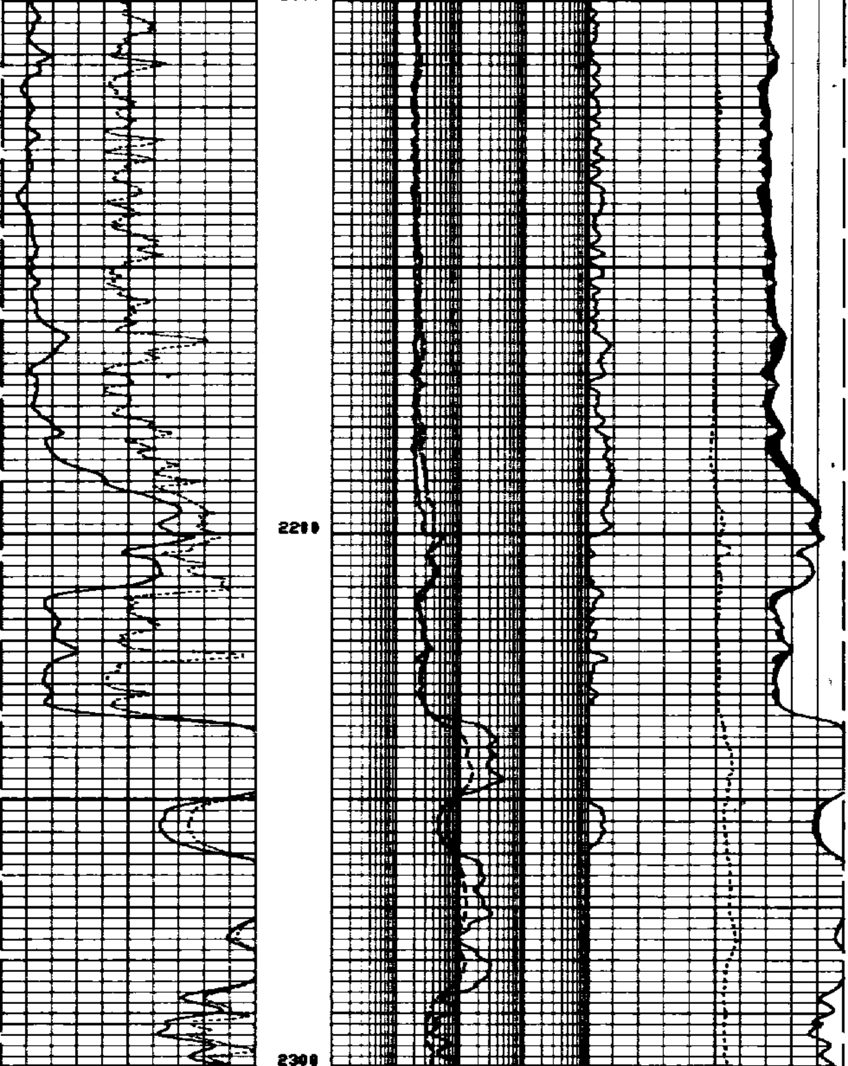
PASS II

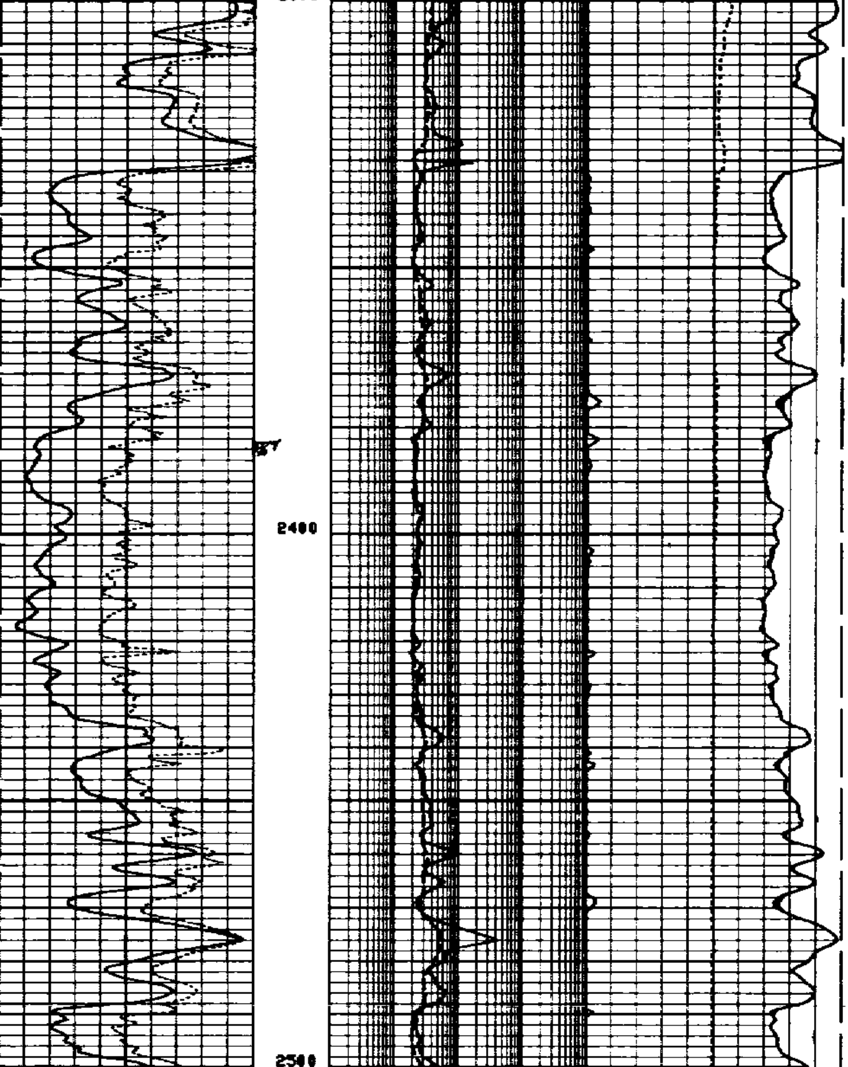
FILE 11 16-APR-85 23:30 50%
DATA ACQUIRED 16-APR-85 01:23 App. Sw 0 50% ϕe

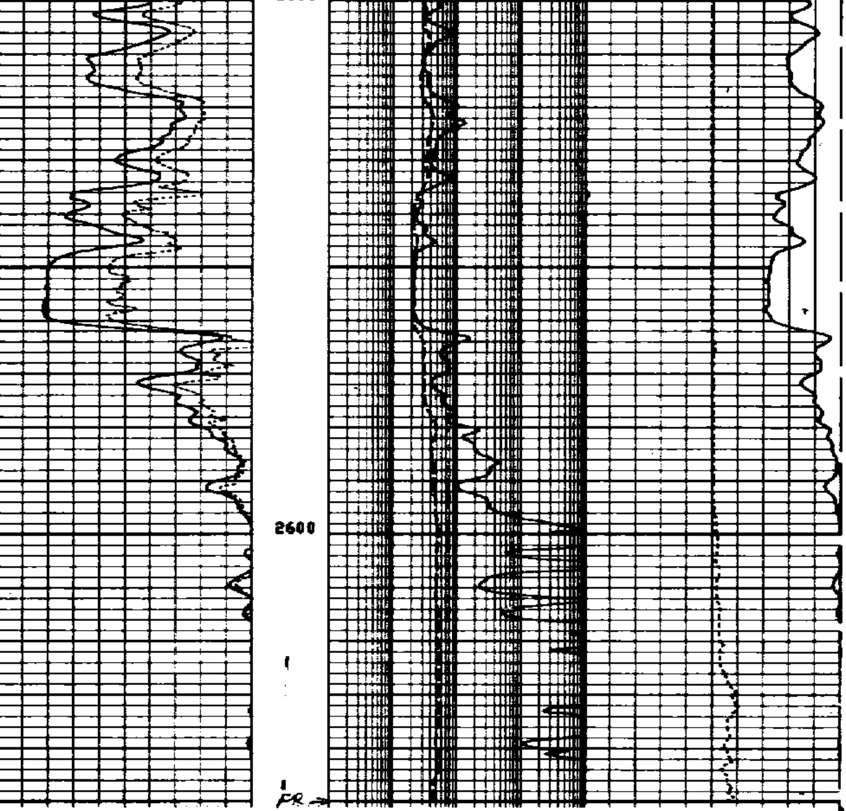












FILE 102 16-APR-85 23:34
DATA ACQUIRED 16-APR-85 00:17

100% Sw 0 50% φE 0
PASS II

RHGF(G/C3)
2.5000 3.0000
MSI
0.0 1.0000

RO (OHMM)
.10000 1000.0
RT (OHMM)
.10000 1000.0

SW
1.0000 -1.000
DCAL(IN)
-20.00 20.000
BVW
1.0000 0.0
PHIE
1.0000 0.0

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT

```
KCON 1.00000                            KEXP 1.00000
FRT  DISA                               KES  E4
UM33 8.99700                            GRSS GR
UM31 13.7700                            UM32 4.77900
UM22 4.77900                            UM23 8.99700
UF   .398000                            UM21 13.7700
RG32 2.64400                            RG33 2.87700
RG23 2.87700                            RG31 2.71000
RG21 2.71000                            RG22 2.64400
SIS  NONE                               LDTA ABSE
NMLA ABSE                               SDGC DGCN
DLLM .350000                            GULM 999.001   GAPI
NDET NEIT                               NLIM .0100000
FRTC NONE                               LSWD ALLO
GDCL 0.0       G/C3                     GDSH 2.90000   G/C3
TPFM 7.20000   MS/M                     DRUL 999.001   G/C3
TPM2 7.20000   MS/M                     TPM3 8.70000   MS/M
FESX DISA                               TPM1 9.80000   MS/M
POUT SAND                               FEPT NONE
RWD  2330.00   OHMM                     FCAL PRES
NPSH .500000                            RWF  .210000   OHMM
SPSH -40.0000  MV                       MPCL 0.0
GRSH 200.000   GAPI                     SPCL -105.000  MV
PMAX .500000                            GRCL 0.0       GAPI
SIMP SP                                 NGSI NEIT
SDNI PRES                               RXOF PRES
HC   CALI                               RTLF DISA
FD   1.00000   G/C3                     MATR SAND
WMUD 10.2000   LB/G                     MDEN 2.65000   G/C3
DHC  CALI                               LPCS THIN
BS   8.75000   IN                       DHS  OPEN
DO   0.0       F                        DO2  0.0       F
PP   NORM
```

Compared to Rw in the field. Should match the actual Rw!

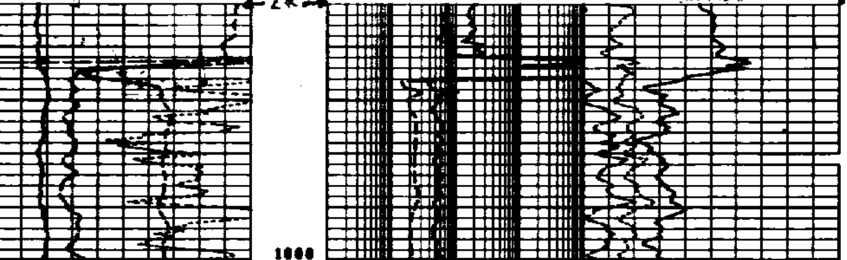
TAPE NOT MADE

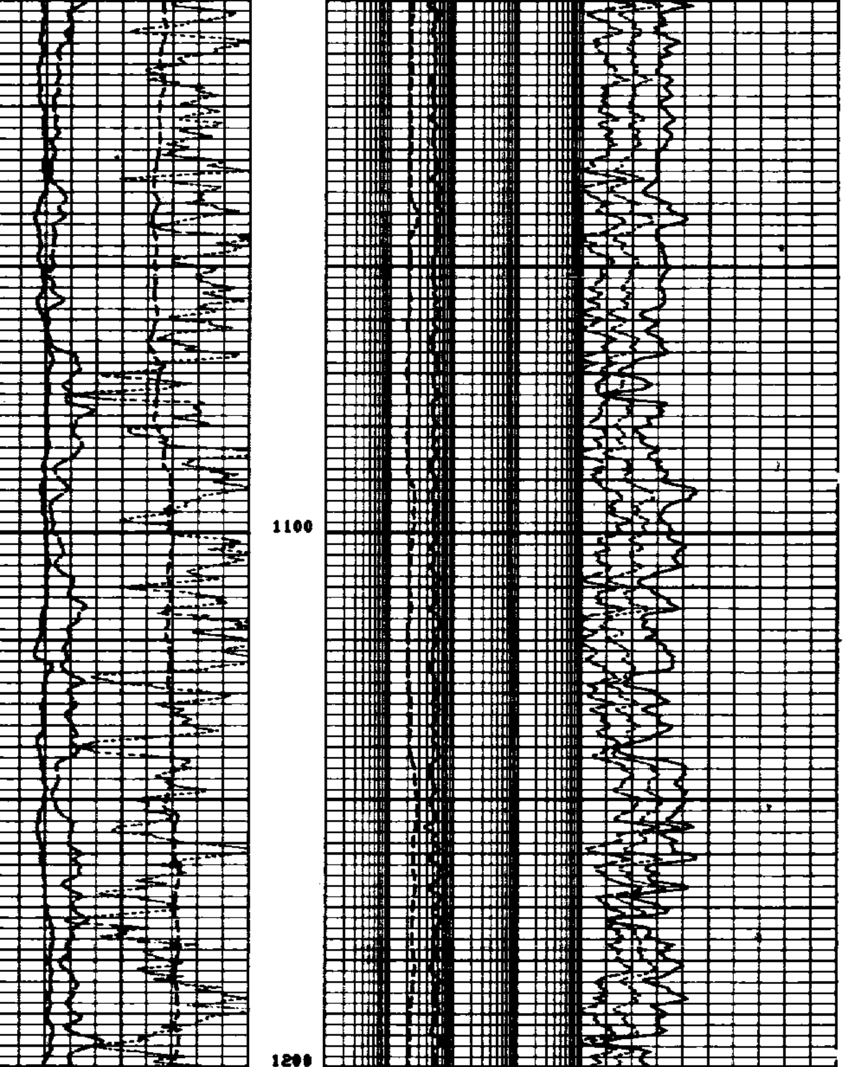
CGR (GAPI)					
0.0	150.00				
PEF				PHIA	
0.0	10.000			.60000	0.0
RMGA(G/C3)		RFA (OHMM)		DPHI	
2.5000	3.0000	.01000	100.00	.60000	0.0
SP (MV)		RT (OHMM)		NPHI	
-100.0	0.0	.10000	1000.0	.60000	0.0

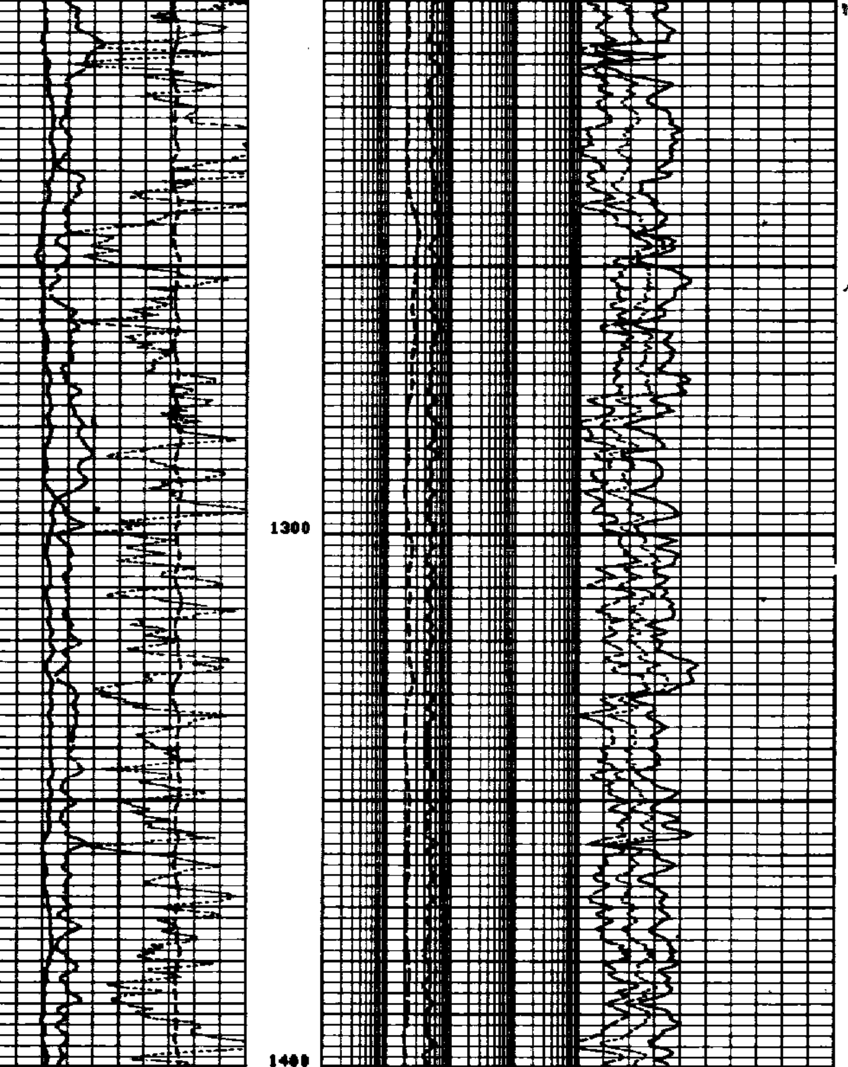
PASS I

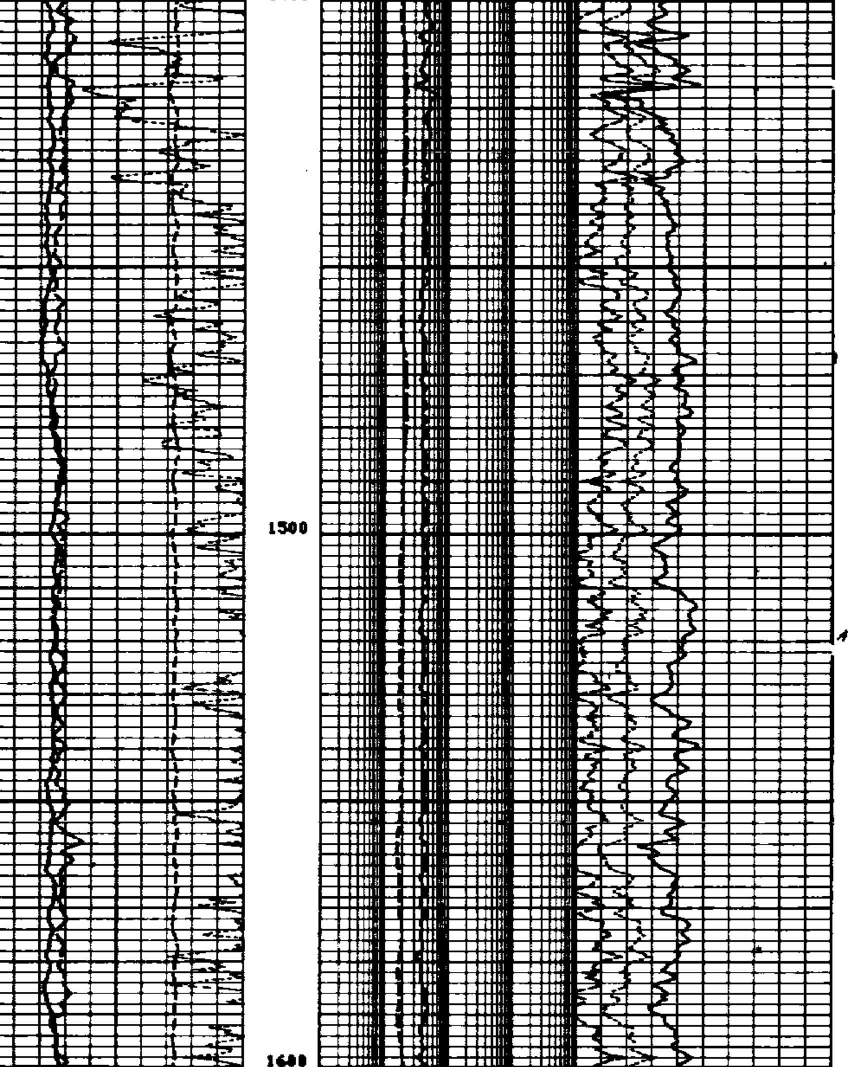
SP GR grain density

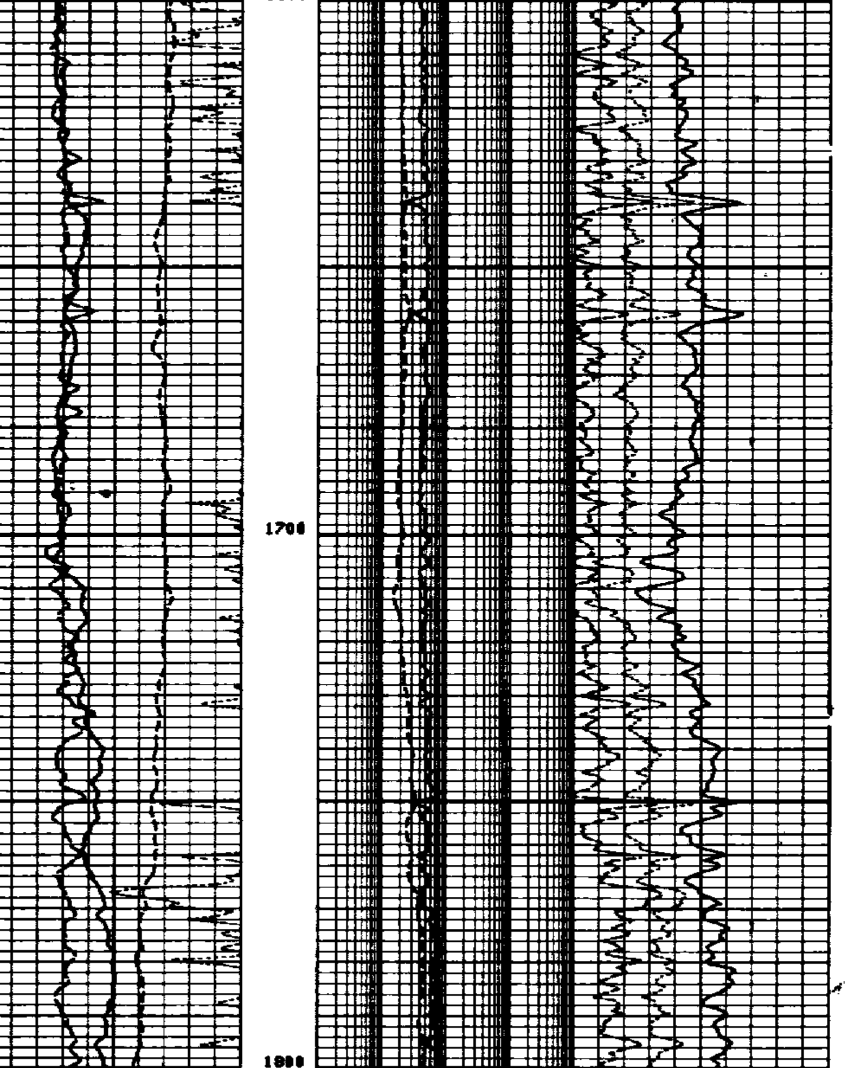
FILE 102 16-APR-05 10:14
DATA ACQUIRED 15-APR-05 19:21

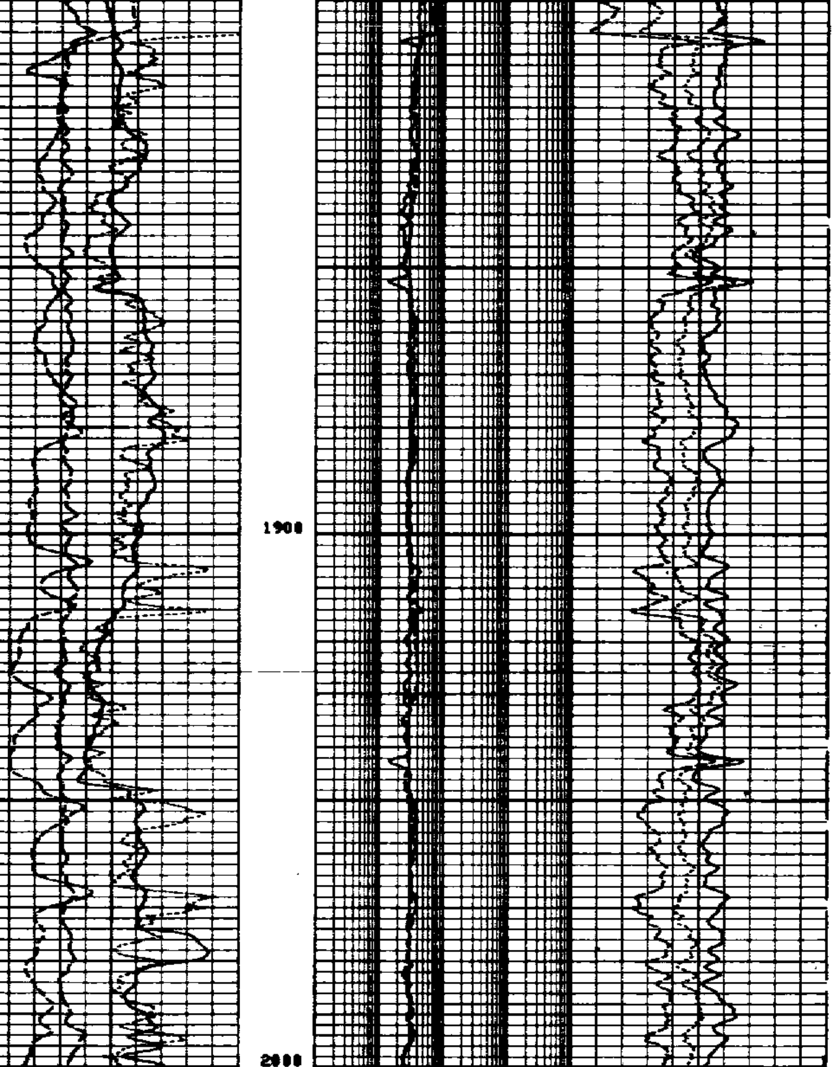


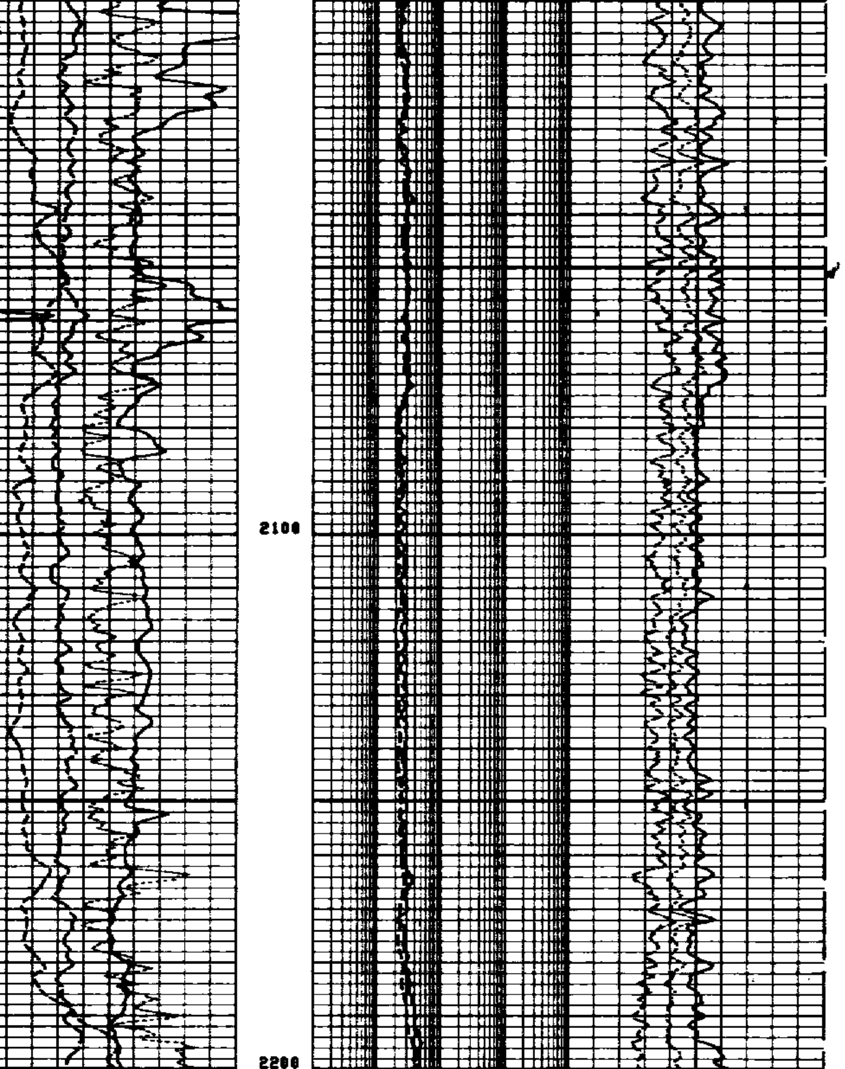


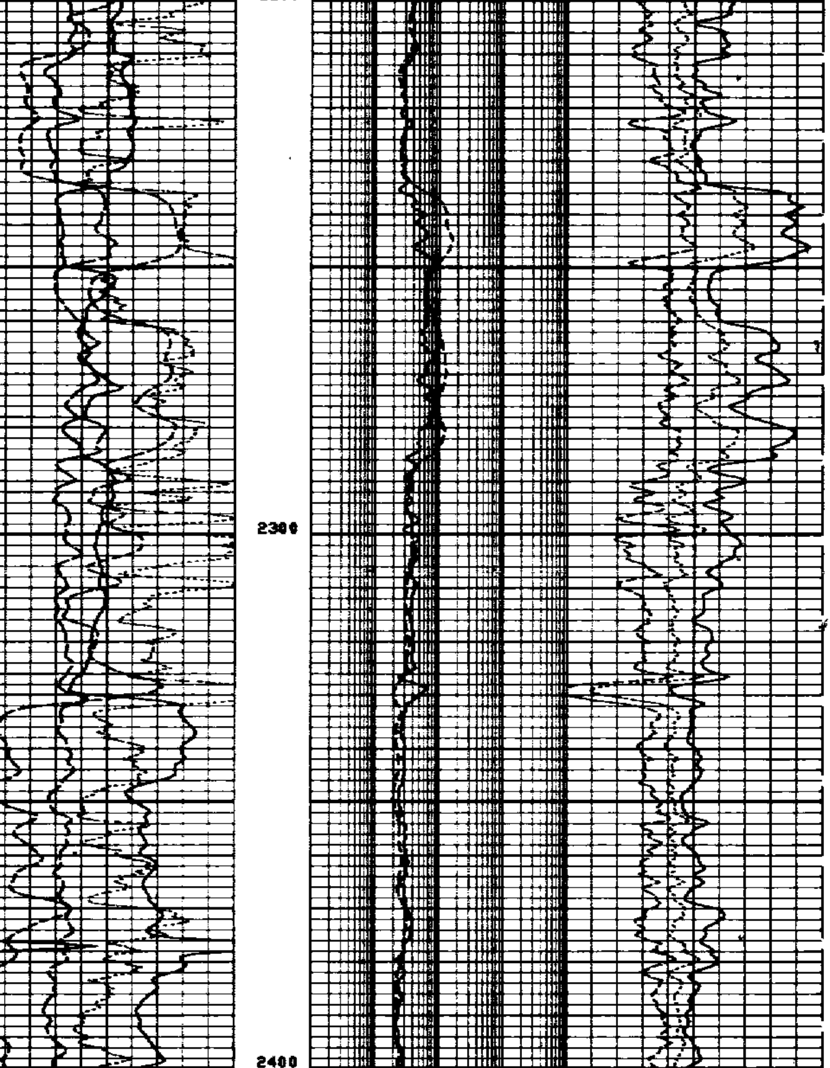


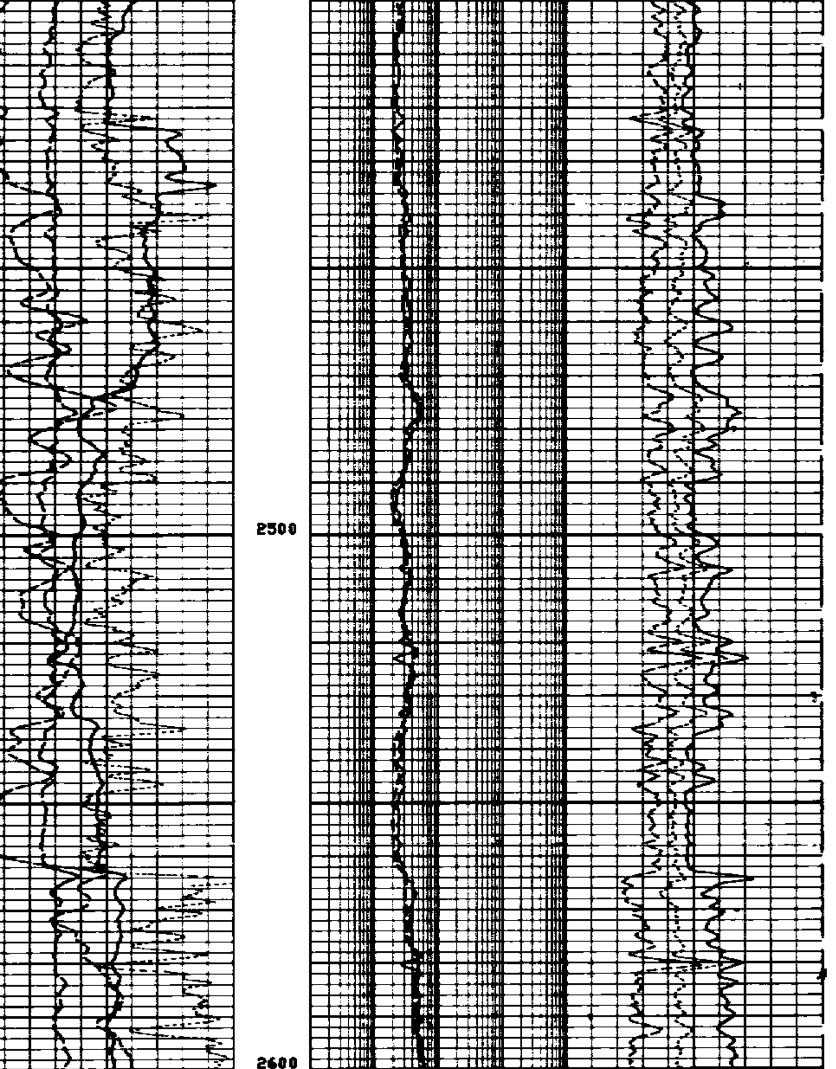


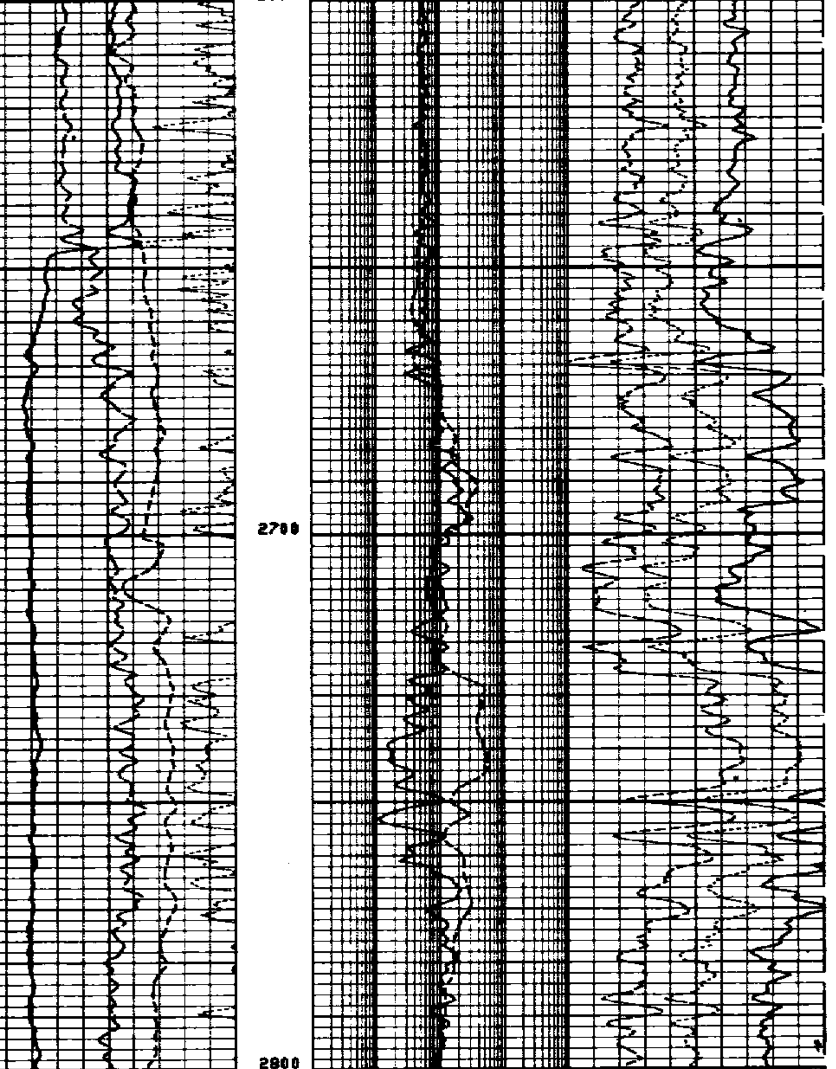


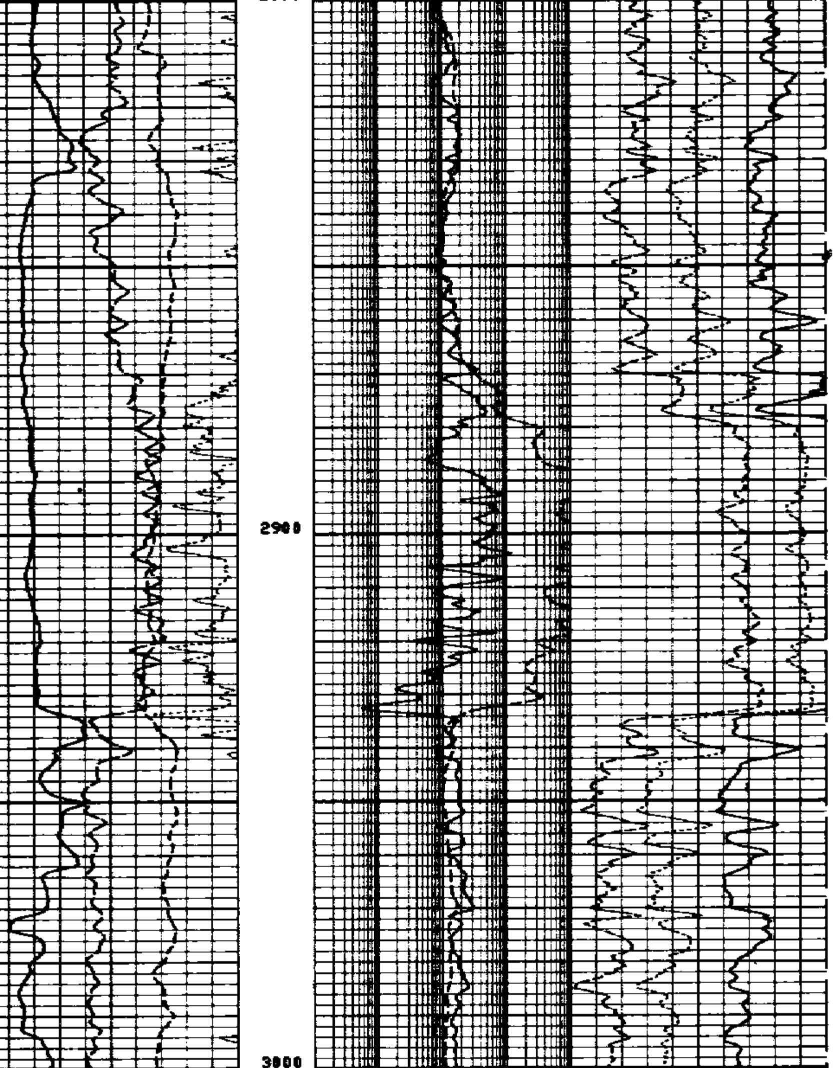


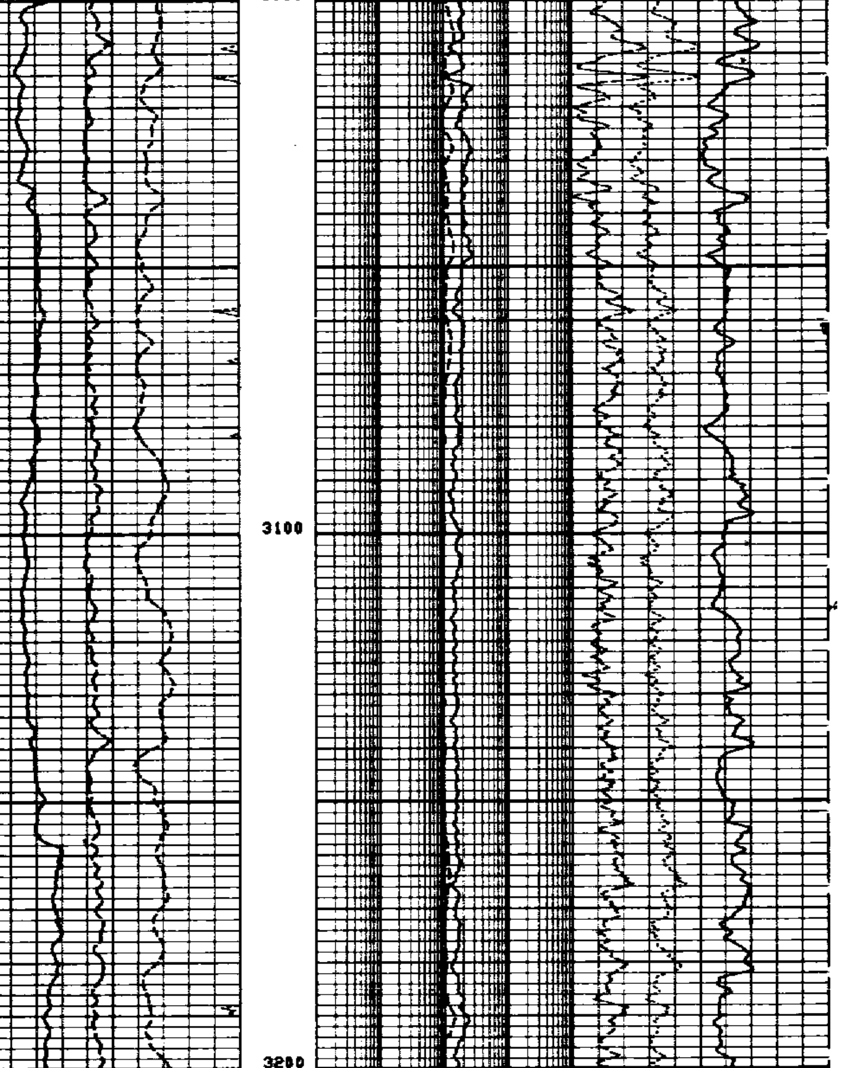


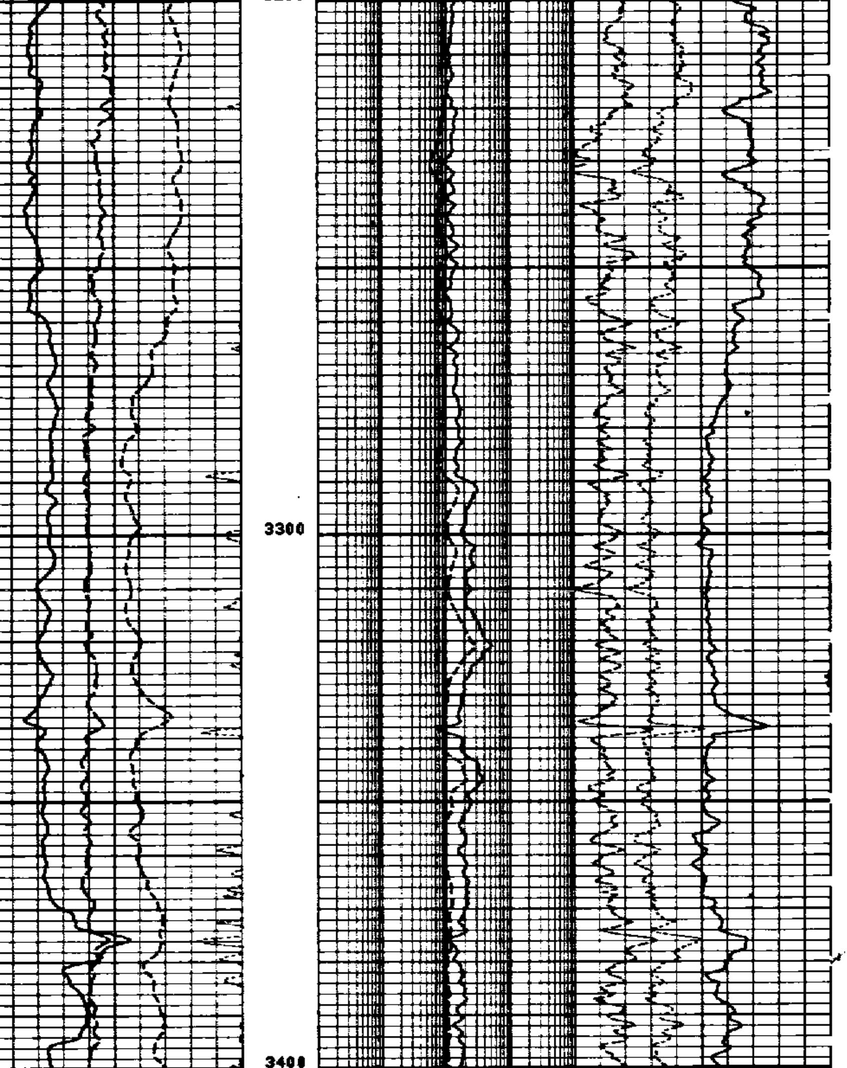


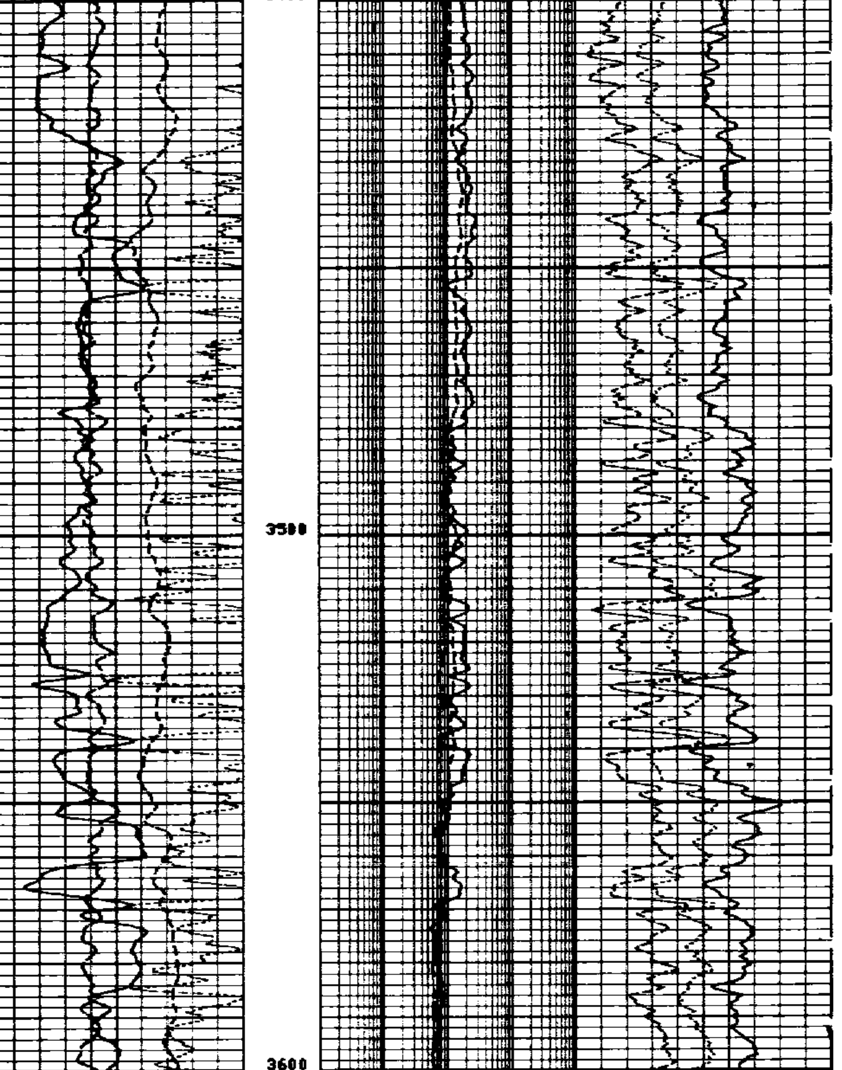


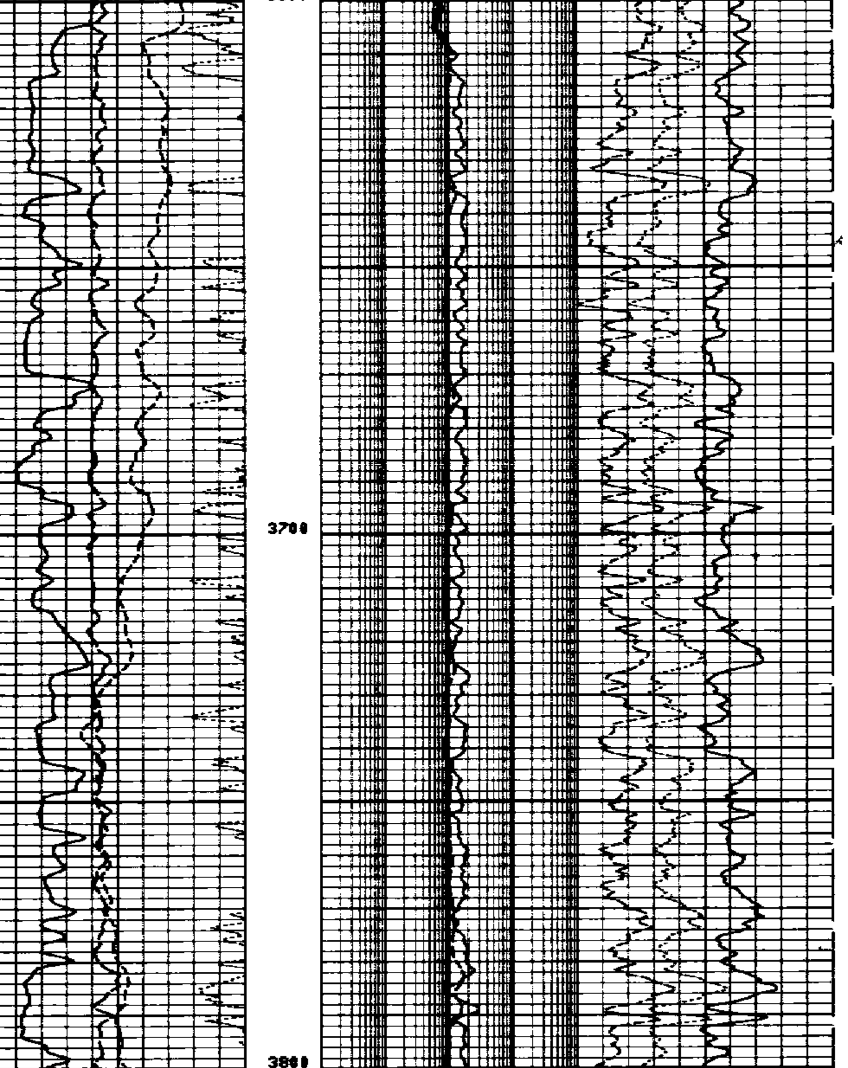


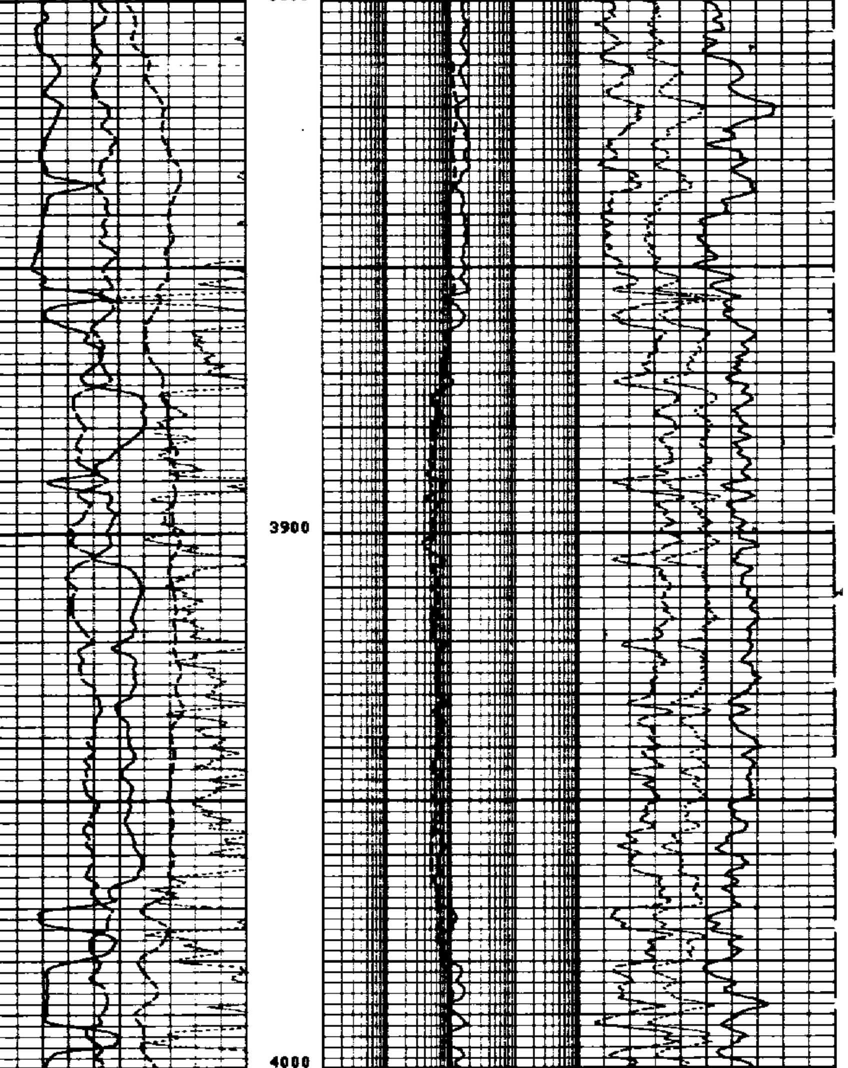


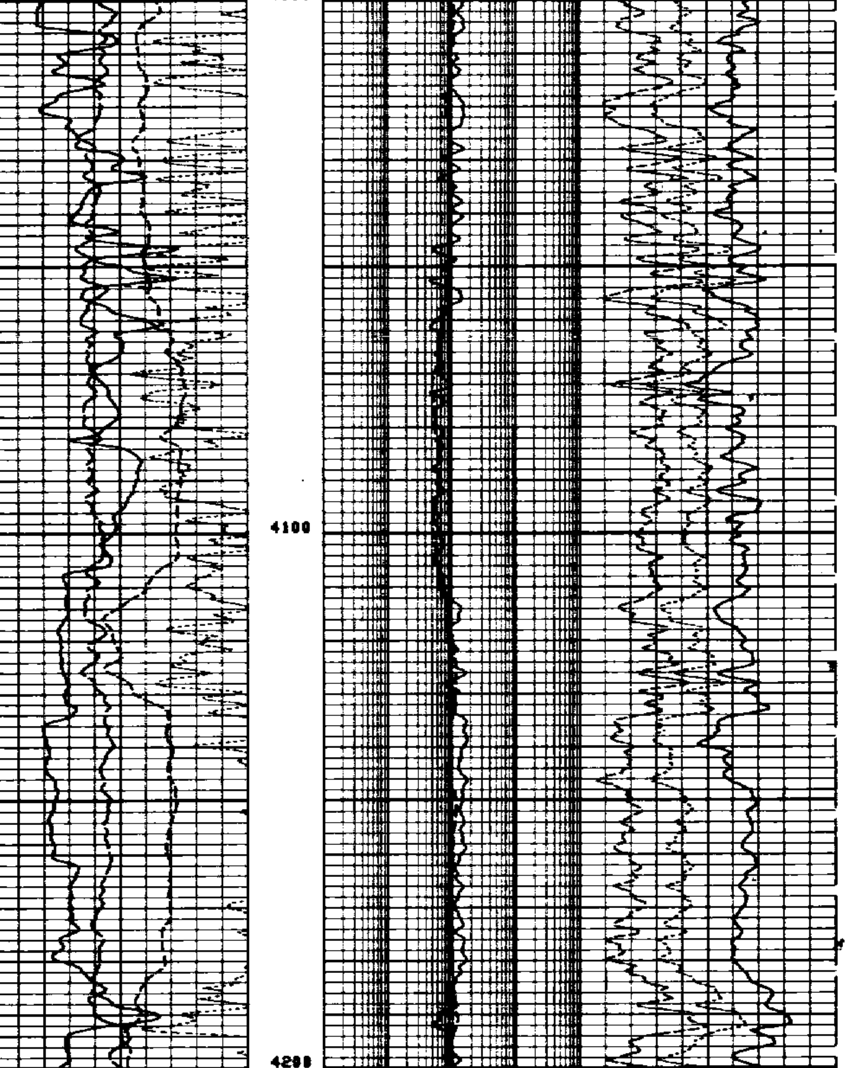


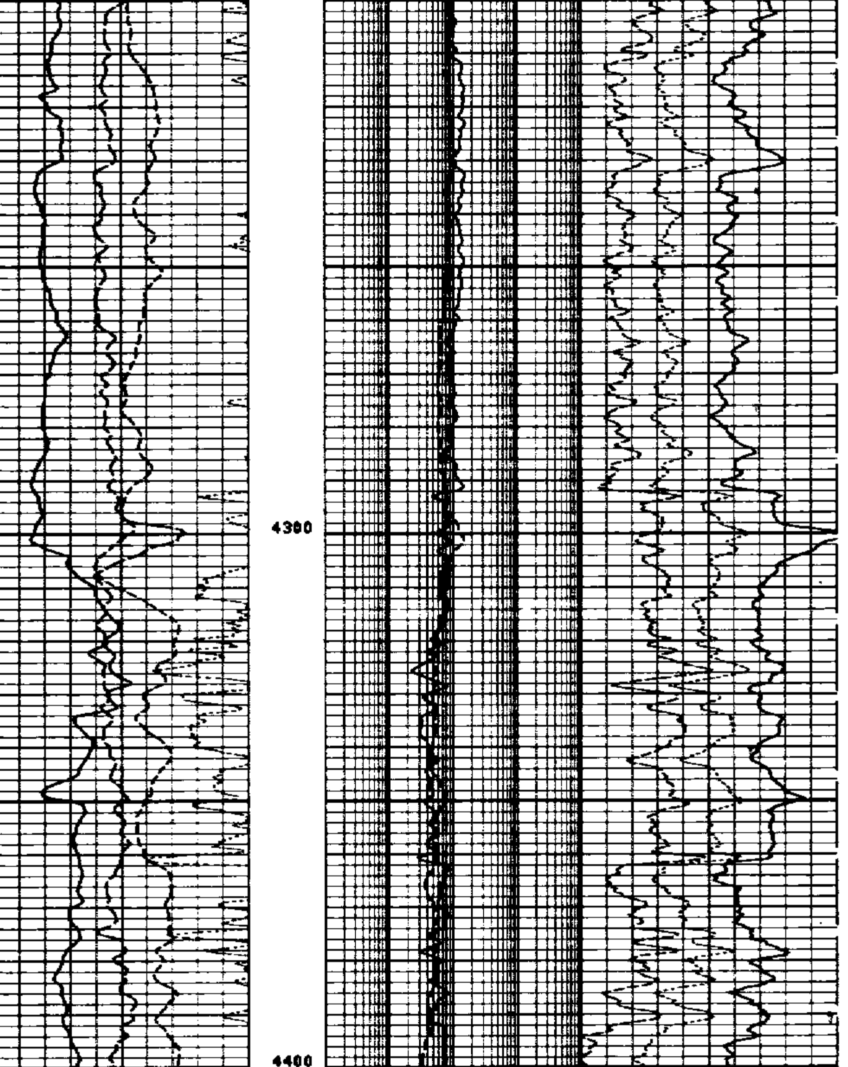


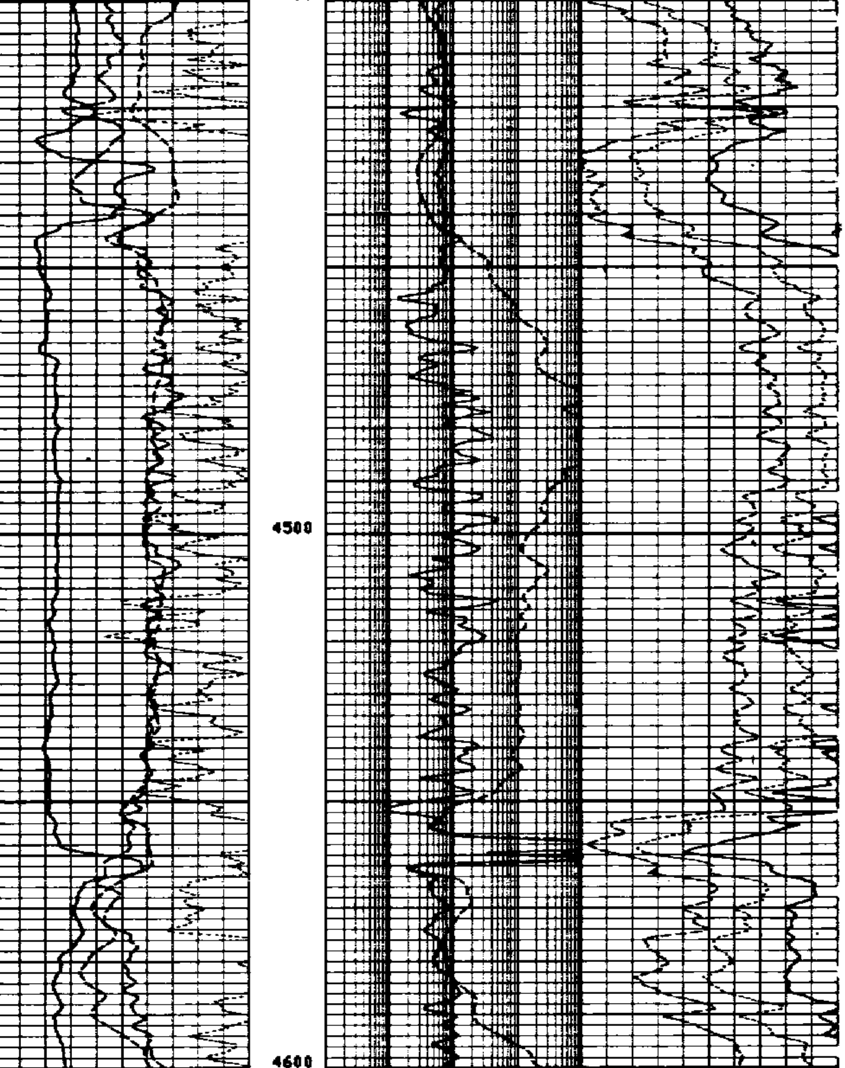


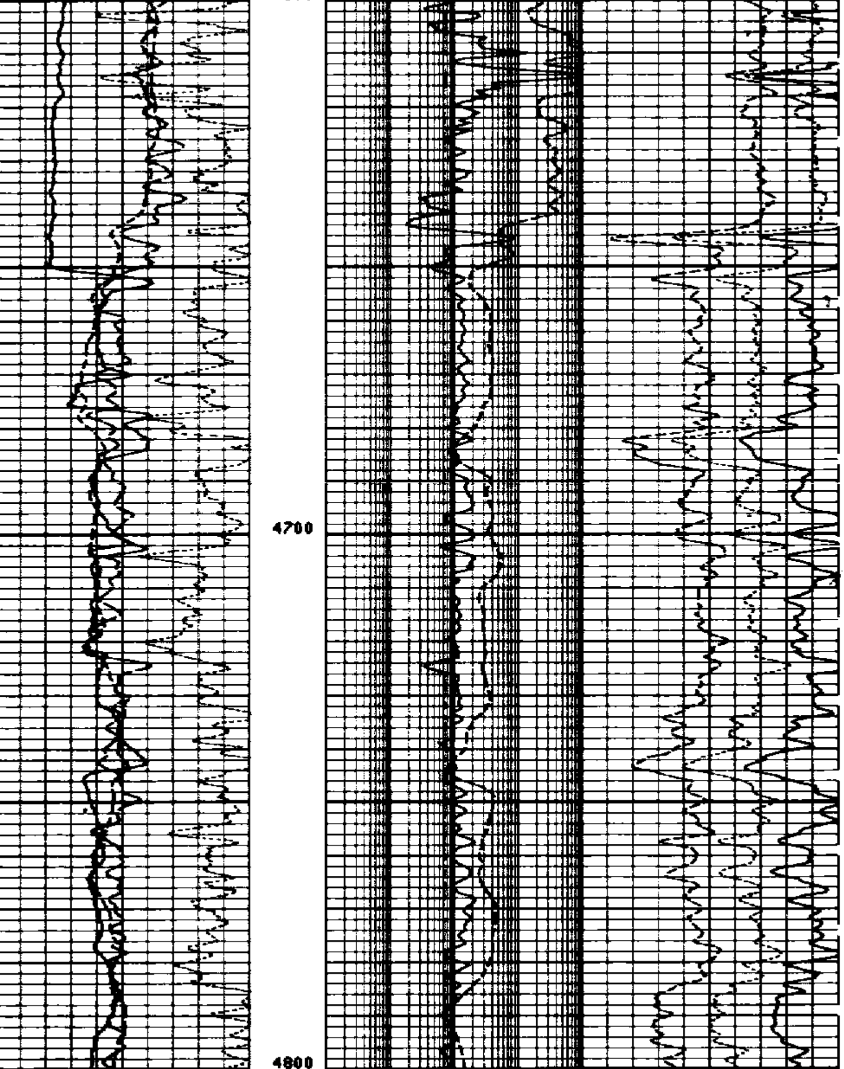


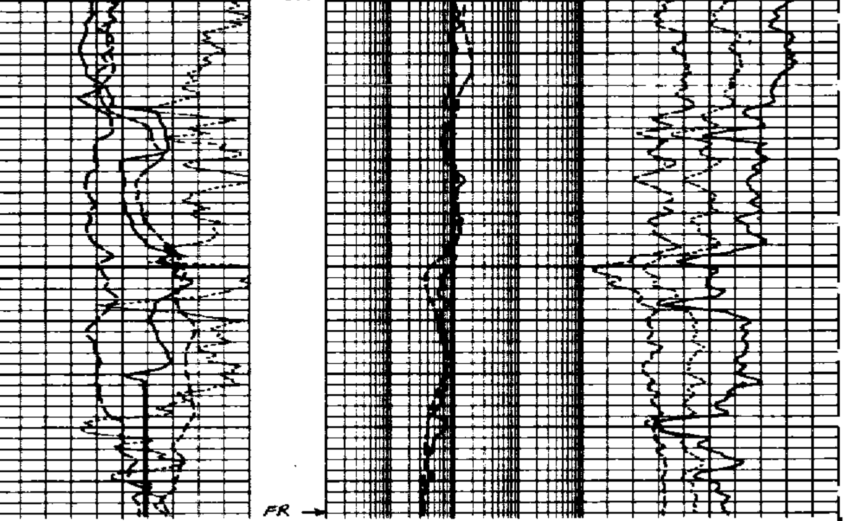












FILE 12 16-APR-85 09:22 PASS I
DATA ACQUIRED 15-APR-85 21:48

CGR (GAPI)							
0.0	150.00						
PEF						PHIA	
0.0	10.000					.60000	0.0
RMGA(G/C3)			RFA (OHMM)			DPHI	
2.5000	3.0000		.01000	100.00		.60000	0.0
SP (MV)			RT (OHMM)			NPHI	
-100.0	0.0		.10000	1000.0		.60000	0.0

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
KEXP	1.00000		RMFS	2.05000	OHMM
KES	E4		KCON	1.00000	
GRSS	GR		FRT	DISA	
UM32	4.77900		UM33	8.99700	
UM23	8.99700		UM31	13.7700	
UM21	13.7700		UM22	4.77900	
RG33	2.87700		UF	.398000	
RG31	2.71000		RG32	2.64400	
RG22	2.64400		RG23	2.87700	
LDTA	ABSE		RG21	2.71000	
SDGC	DGCM		SIS	NONE	
GULM	999.001	GAPI	MMLA	ABSE	
NLIM	.0100000		BLLM	.350000	
LSWB	ALLD		MDET	MEIT	
GDSH	2.90000	G/C3	FRTC	NONE	
DRUL	999.001	G/C3	GDCL	0.0	G/C3
TPM3	8.70000	MS/M	TPFM	7.20000	MS/M
TPM1	9.80000	MS/M	TPM2	7.20000	MS/M

```
FEPT NONE                                     FESX DISA
FCAL PRES                                     POUT SAND
RWF  .350000    OHMM                          RWB  .400000    OHMM
MPCL 0.0                                      MPSH .500000
SPCL -200.000   MV                            SPSH 0.0        MV
GRCL 0.0        GAPI                          GRSH 200.000    GAPI
NGSI NEIT                                     PMAX .500000
RX0F PRES                                     SINP BOTH
BHT  145.000    DEGF                          SONI PRES
HC   CALI                                     RTLF DISA
FD   1.00000    G/C3                          MATR SAND
WMUD 10.2000    LB/G                          MDEN 2.65000    G/C3
DHC  CALI                                     LPCS TWIN
BS   8.75000    IN                            BHS  OPEN
DG   0.0        F                             BD2  0.0        F
PP   NORM

                    TAPE NOT MADE
```